

SUPPLEMENTAL MATERIAL

Table S1. Distribution (number and percent) of specific ART used for the first regimen and total follow-up time spent taking a specific ART (Person Years, percent of follow-up).

| | Immediate | | Deferred | |
|------------------------|---------------|-------------------|---------------|--|
| | First Regimen | Cumulative | First Regimen | Cumulative |
| | | N(%) [*] | | Follow-up Time on Drug PY(% time) [†] |
| No. of participants | 2326 | | 2359 | |
| Any NRTI | 2285 (98.2) | 6582 (93.9) | 1131 (47.9) | 1954 (27.7) |
| Abacavir | 72 (3.1) | 344 (4.9) | 70 (3.0) | 154 (2.2) |
| Emtricitabine | 2025 (87.1) | 5794 (82.7) | 1001 (42.4) | 1724 (24.4) |
| Tenofovir | 2026 (87.1) | 5821 (83.1) | 1012 (42.9) | 1735 (24.6) |
| Lamivudine | 260 (11.2) | 779 (11.1) | 129 (5.5) | 225 (3.2) |
| Zidovudine | 188 (8.1) | 411 (5.9) | 47 (2.0) | 63 (0.9) |
| Other | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) |
| Any NNRTI | 1759 (75.6) | 4524 (64.6) | 722 (30.6) | 1122 (15.9) |
| efavirenz | 1661 (71.4) | 4097 (58.5) | 573 (24.3) | 855 (12.1) |
| rilpivirine | 97 (4.2) | 360 (5.1) | 141 (6.0) | 237 (3.4) |
| other | 1 (0.0) | 68 (1.0) | 8 (0.7) | 31 (0.4) |
| Any PI | 424 (18.2) | 1653 (23.6) | 252 (10.7) | 553 (7.8) |
| atazanavir | 230 (9.9) | 887 (12.7) | 99 (4.2) | 220 (3.1) |
| darunavir | 165 (7.1) | 611 (8.7) | 125 (5.3) | 290 (4.1) |
| fosamprenavir | 11 (0.5) | 33 (0.5) | 6 (0.3) | 13 (0.2) |
| lopinavir | 18 (0.8) | 121 (1.7) | 21 (0.9) | 30 (0.4) |
| ritonavir | 422 (18.1) | 1630 (23.3) | 250 (10.6) | 547 (7.8) |
| other | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) |
| Any INSTI | 103 (4.4) | 448 (6.4) | 157 (6.7) | 288 (4.1) |
| dolutegravir | 1 (0.0) | 10 (0.1) | 19 (0.8) | 21 (0.3) |
| elvitegravir | 1 (0.0) | 25 (0.4) | 49 (2.1) | 63 (0.9) |
| raltegravir | 101 (4.3) | 413 (5.9) | 89 (3.8) | 205 (2.9) |
| other | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) |
| Other ART [‡] | 1 (0.0) | 2 (0.0) | 0 (0.0) | 0 (0.0) |

| | | | | |
|----------------|----------|-----------|-------------|-------------|
| Not on any ART | 39 (1.7) | 400 (5.7) | 1225 (51.9) | 5094 (72.2) |
|----------------|----------|-----------|-------------|-------------|

N – number; PY – Person years; ART – Antiretroviral therapy; NRTI – nucleoside reverse transcriptase inhibitor; NNRTI – non-nucleoside reverse transcriptase inhibitor; PI – protease inhibitor; INSTI – integrase strand transfer inhibitor

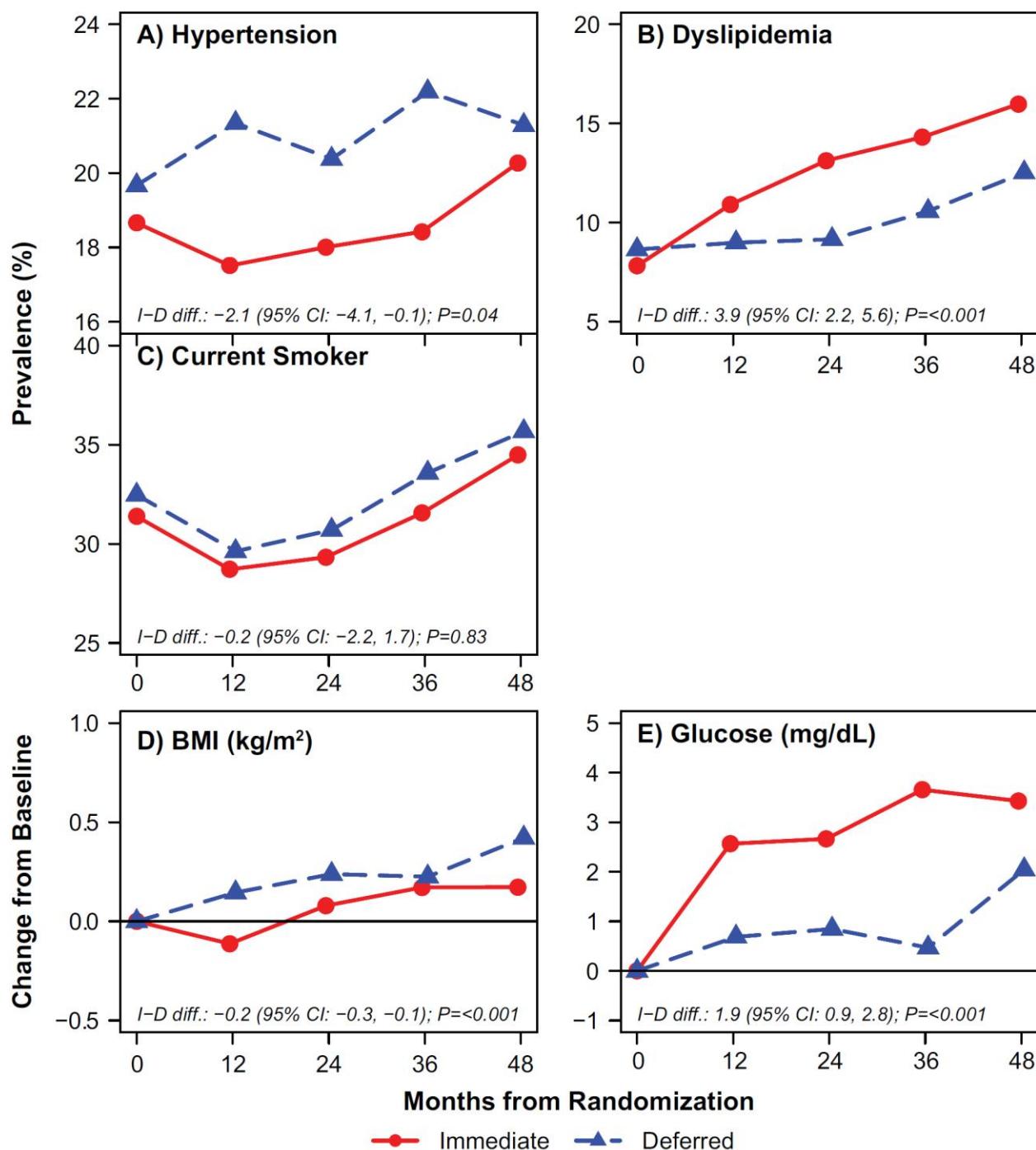
* Denominator is all participants in the randomization group.

† Person years includes switches and accounts for stops and therefore includes time spent on drug for participant who did not initiate ART with the given

drug. Denominator is over all follow-up time accumulated within the randomization group.

‡ 1 participant started a blinded study and the type of ART taken is unknown.

Figure S1. Changes in the Prevalence of Selected CVD Risk Factors by Treatment Group



Shown in panels A-C is the unadjusted prevalence (%) at baseline and follow-up annual visits for participants in the immediate (I, solid line) and deferred (D, dashed line) ART groups for CVD (cardiovascular disease) risk factor, including hypertension (panel A), dyslipidemia (panel

B), and current smoking (panel C). Presented within panels A-C are overall estimated differences in prevalence (with 95% confidence interval and p-value) over follow-up between the two groups (immediate minus deferred), adjusting for the baseline prevalence and visit from generalized estimating equations. Shown in panels D-E are the unadjusted mean changes from baseline at annual visits for participants in both ART groups for the following measures: body mass index (BMI, panel D) and glucose (panel E). Presented within panels D-E is the estimated mean difference (with 95% confidence interval and p-value) over follow-up between the two groups (immediate minus deferred), adjusting for the baseline value and visit from longitudinal mixed models. Figures are truncated at Month 48.

Appendix: The INSIGHT START (Strategic Timing of AntiRetroviral Treatment) Study Group

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